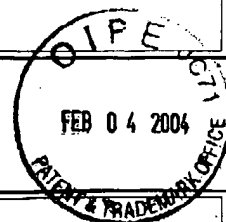


ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8

Stylesheet Version v1.8.0

Title of
InventionINFECTIOUS CLONES OF RNA VIRUSES AND VACCINES AND
DIAGNOSTIC ASSAYS DERIVED THEREOF

Application Number: 09/874626

09/874626

Confirmation Number: 9761

First Named Applicant: Johanna Meulenberg

Attorney Docket Number: 2183-4041.1US

Art Unit: 1648

Examiner: Ulrike Windler Ph.D.

Search string: (3137631 or 3959457 or 4015100 or 4205060 or 4452747 or 4606940 or 4744933 or 4921706 or 4927637 or 4944948 or 5008050 or 5009956 or 5132117 or 6268199 or 6110467 or 5476778 or 5510258 or 5620691 or 5677429 or 5683865 or 5690940 or 5695766 or 5840563 or 5846805 or 5998601 or 6197310 or 6251397 or 6455245 or 6495138 or 6500662 or 20030157689).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
1	1	3137631	1964-06-22	Soloway			
2	2	3959457	1976-05-25	Speaker et al.			
3	3	4015100	1997-03-29	Gnanamuthu et al.			
4	4	4205060	1980-05-27	Monsimer et al.			
5	5	4452747	1984-06-05	Gersonde et al.			
6	6	4606940	1986-08-19	Frank et al.			
7	7	4744933	1988-05-17	Rha et al.			
8	8	4921706	1990-05-01	Roberts et al.			
9	9	4927637	1990-05-22	Morano et al.			
10	10	4944948	1990-07-31	Uster et al.			

11	5008050	1991-04-16	Cullis et al.
12	5009956	1991-04-23	Baumann
13	5132117	1992-07-21	Speaker et al.
14	6268199	2001-07-31	Meulenberg et al.
15	6110467	2001-08-29	Paul et al.
16	5476778	1995-12-19	Chladek et al.
17	5510258	1996-04-23	Sanderson et al.
18	5620691	1997-04-15	Wensvoort et al.
19	5677429	1997-10-14	Benfield
20	5683865	1997-11-04	Collins et al.
21	5690940	1997-11-25	Joo
22	5695766	1997-12-09	Paul et al.
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24	5846805	1998-12-08	Collins et al.
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28	6455245	2002-09-24	Wensvoort et al.
29	6495138	2002-12-17	van Nieuwstadt et al.
30	6500662	2002-12-31	Calvert et al.

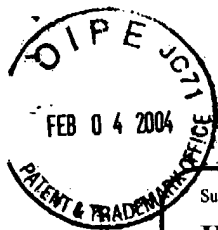
US Published Applications

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init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
1		20030157689	2003-08-21	Calvert et al.			

Signature

Examiner Name	Date
<i>[Signature]</i>	5/12/04



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STATEMENT BY APPLICANT**

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Sheet 1 of 10

Complete if Known

Application Number	09/874,626
Filing Date	June 5, 2001
First Named Inventor	Meulenberg et al.
Group Art Unit	1648
Examiner Name	U. Winkler, Ph.D.
Attorney Docket Number	2183-4041.1US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
UW		US-3,137,631	06/1964	Soloway	
		US- 3,959,457	05/1976	Speaker et al.	
		US- 4,015,100	03/1997	Gnanamuthu et al.	
		US- 4,205,060	05/1980	Monsimer et al.	
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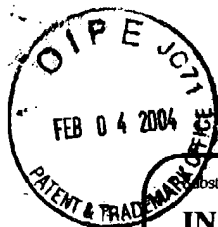
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Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
UW		EP 0 440 219 A1	08/1991	Schwiz, Serum- & ImpfInstitut Bern		
		0 529 584	8/1992	Boehringer Ingelheim Animal Health Inc.		
		EP 0595436 A2	10/1983	Iowa State University Research Foundation, Inc.		
		EP 0732340	3/1996	Akzo Nobel N.V.		
		EP 0 835 930 A1	04/1998	Akzo Nobel N.V.		
		EP 0839912 A1	5/1998	Instituut voor Dierhouderij en Diergezondheid (ID- DLO)		
		WO 93/06211	04/1993	Benfield		
		WO 93/14196	07/1993	Brun		
		WO 94/18311	08/1994	Iowa State University Research Foundation Inc.		
		WO 95/28227	10/1995	Children's Hospital of Philadelphia		
		WO 96/36356	11/1996	Boehringer Ingelheim Corporation		
		WO 96/40932	12/1996	Halbur		

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Sheet 2 of 10

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Application Number	09/874,626
Filing Date	June 5, 2001
First Named Inventor	Meulenberg et al.
Group Art Unit	1648
Examiner Name	U. Winkler, Ph.D.
Attorney Docket Number	2183-4041.1US

U.S. PATENT DOCUMENTS

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UL		US-5,476,778	12/1995	Chladek et al.	
		US- 5,510,258	4/1996	Sanderson et al.	
		US- 5,620,691	4/1997	Wensvoort et al.	
		US- 5,677,429	10/1997	Benfield	
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		US- 5,690,940	11/1997	Joo	
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		US- 2003/0157689 A1	8/2003	Calvert et al.	

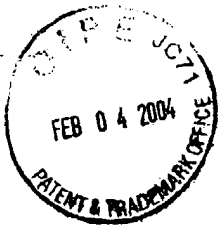
FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
UL		0 587 780	3/1994	Stichting Centraal Diergeneeskundig Instituut		
		0 810 250	12/1995	Akzo Nobel N.V.		
		2 282 881	4/1995	Cyanamid Iberica S A		
		2289279	11/1995	Cyanamid Iberica S A		
		WO 92/21375	12/1992	Stichting Centraal Diergeneeskundig Instituut		
		WO 93/03760	3/1993	Collins et al.		
		WO 96/04010	2/1996	Regents of the University of Minnesota		
		WO 96/06619	3/1996	Paul et al.		
		WO 97/31651	9/1997	Schering Corporation		
		WO 98/18933	5/1998	Bos-De Ruijter		
		WO 98/50426	11/12/1998	Stichting Instituut voor Dierhouderij en Diergezondheid		
		WO 98/55626	12/1998	Origen, Inc.		
		WO 00/53787	09/2000	Stichting Dienst Landbouwkundig Onderzoek		
		WO 02/095040 A1	11/2002	ID-Lelystad, Instituut voor Dierhouderij en Diergezondheid B.V.		

Examiner Signature	<i>[Signature]</i>	Date Considered	5/12/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	09/874,626		
		Filing Date	June 5, 2001		
		First Named Inventor	Meulenberg et al.		
		Group Art Unit	1648		
		Examiner Name	U. Winkler, Ph.D.		
Sheet	3	of	10	Attorney Docket Number	2183-4041.1US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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Examiner Signature	<i>U. Winkler</i>	Date Considered	5/12/04
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Substitute for form 1449A/PTO		Complete if Known			
		Application Number	09/874,626		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	June 5, 2001		
		First Named Inventor	Meulenberg et al.		
		Group Art Unit	1648		
		Examiner Name	U. Winkler, Ph.D.		
Sheet	4	of	10	Attorney Docket Number	2183-4041.IUS

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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Examiner Signature		Date Considered	5/12/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	June 5, 2001
		First Named Inventor	Meulenberg et al.
		Group Art Unit	1648
		Examiner Name	U. Winkler, Ph.D.
		Attorney Docket Number	2183-4041.1US
Sheet	5	of	10

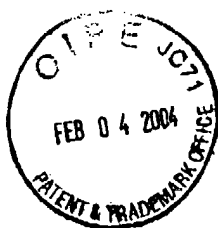
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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UW		McCullough et al., "9. Experimental Transmission Of Mystery Swine Disease", <u>The New Pig Disease Porcine Reproductive And Reproductive Syndrome</u> , A report on the seminar/workshop held in Brussels on 29-30 April, 1991, pp. 46-52.	
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		Notice of Opposition by Akzo Nobel against European Patent No. 0 587 780, November 28, 1995, EP.	
		Notice of Opposition by Cyanamid Iberica against European Patent No. 0 587 780, November 28, 1995, EP.	
		Pol et al., "Pathological, ultrastructural, and immunohistochemical changes caused by Lelystad virus in experimentally induced infections of mystery swine disease (synonym: porcine epidemic abortion and respiratory syndrome (PEARS))", <u>The Veterinary Quarterly</u> , Vol. 13, No. 3, July 1991, pp. 137-143.	
		Polson DD, "Answers to Your Questions on PRRS", NOBL Laboratories, 18 pages.	
	Polson DD, "RespPRRS A PRRS Vaccine Review", NOBL Laboratories, 22 pages.		

Examiner Signature		Date Considered	5/12/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	June 5, 2001		
		First Named Inventor	Meulenberg et al.		
		Group Art Unit	1648		
		Examiner Name	U. Winkler, Ph.D.		
Sheet	6	of	10	Attorney Docket Number	2183-4041.1US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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UW		Polson et al., "An evaluation of the financial impact of Porcine Reproductive and Respiratory Syndrome (PRRS) in nursery pigs", <u>Proceedings of the 13th International Pig Veterinary Society Congress</u> , p. 31, June 1994.	
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		Application Number	09/874,626
		Filing Date	June 5, 2001
		First Named Inventor	Meulenberg et al.
		Group Art Unit	1648
		Examiner Name	U. Winkler, Ph.D.
Sheet 7 of 10	Attorney Docket Number	2183-4041.1US	

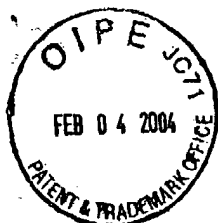
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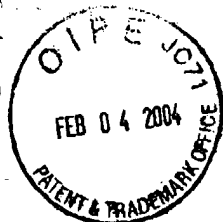
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Group Art Unit	1648
Examiner Name	U. Winkler, Ph.D.
Attorney Docket Number	2183-4041.1US

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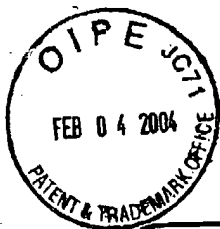
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		AF184212, Porcine reproductive and respiratory syndrome virus strain SP, complete genome.	
		AF159149, Porcine reproductive and respiratory syndrome virus isolate MLV RespPRRS/Repro, complete genome.	
		AF046869, Porcine reproductive and respiratory syndrome virus isolate 16244B, 2/18/97 (Nebraska)pass.3, complete genome.	
	U15146, Lactate dehydrogenase-elevating virus Plagemann strain, complete genome.		
	VIIIth International Symposium on Nidoviruses (Corona and Arteriviruses), May 20-25, 2000.		

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